

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	((engine or motor) near (rotation or rpm)) and (cam adj angle) and ("IC" or (integrat\$4 adj circuit)) and (PWM or (pulse near modulat\$4)) and pulse	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 16:31
L2	9207	(MOSFET or transistor) and (PWM or (pulse near width)) and timer and circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 17:26
L3	1748	L2 and vehicle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 16:32
L4	869	L3 and (IC or (integrat\$4 near circuit))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 17:26
L5	758	L4 and frequency	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 16:33
L6	315	L5 and (duty near cycle)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 16:33
L7	170	L6 and serial	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 17:24
L8	94	L6 and (serial near communication)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 17:25
L9	1	("6560528").PN. OR ("6999869").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/24 17:06

## EAST Search History

L10	29	("4566069"   "4615321"   "5490064"   "5622154"   "5638272"   "5704336"   "5794165"   "5975057"   "6009370"   "6016794"   "6026786"   "6240340"   "6240772").PN. OR ("6560528"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/24 17:14
L11	10	("4886030"   "4951209"   "4971011"   "4987888"   "5025380"   "5195491").PN. OR ("6016794"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/24 17:22
L12	589	701/99.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 17:39
L13	8	L12 and (serial near communication)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 17:25
L14	66	L12 and (IC or (integrat\$4 near circuit))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 17:29
L15	6	L12 and (MOSFET or transistor) and (PWM or (pulse near width)) and timer and circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 17:30
L16	275	701/105.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 18:08
L17	25	L16 and (PWM or (pulse near width)) and timer and circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 18:08
L18	4	("5433107"   "6334094"   "6411917"   "6560558").PN. OR ("6961652"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/24 17:33
L19	2317	circuit and (driver with timer with (circuit or IC or (integrat\$4 near circuit)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 17:40

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L20	453	L19 and vehicle	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 17:40
L21	234	L20 and (transistor or FET or MOSFET)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 17:43
L22	659	701/104.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 18:17
L23	22	L22 and (PWM or (pulse near width)) and timer and circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 18:17
L24	12	("4282573"   "4363097"   "4424568"   "4428348"   "4478185"   "4512317"   "4532592").PN. OR ("4933862").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/24 18:11
L25	207	123/339.14.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 18:19
L26	5	L25 and (PWM or (pulse near width)) and timer and circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 18:19
L27	0	123/417.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 18:19
L28	1181	123/480.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 18:19
L29	80	L28 and (PWM or (pulse near width)) and timer and circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/24 18:19

## EAST Search History

L30	12	("5025380"   "5126944"   "5497329"   "5522365"   "5628292"   "5781875"   "5806012"   "5823166"   "5896845").PN. OR ("6029630").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/24 18:59
L31	10	(US-20030158649-\$ or US-20030120417-\$).did. or (US-6845315-\$ or US-5087915-\$ or US-7126463-\$ or US-7130723-\$ or US-7208918-\$ or US-6999869-\$ or US-6016794-\$ or US-4933862-\$).did.	US-PGPUB; USPAT	OR	ON	2007/06/24 18:59
L32	0	L31 and (cam adj angle)	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/24 18:59
L33	2	L31 and cam	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/24 18:59
S1	4	((("5263450") or ("5775296"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/24 16:28
S2	9	("4309973"   "4457286"   "5060614").PN. OR ("5263450").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/18 11:15
S3	709	701/115.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 12:10
S4	406	S3 and circuit	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 12:10
S5	392	S4 and tim\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 16:31
S6	96	S5 and ((pulse near width) or PWM)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 22:37

## EAST Search History

S7	95	control\$4 and vehicle and (engine or motor) and ((serial near communication) with circuit) and (puls\$3 near signal\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 13:31
S8	2	("6795767").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2007/06/18 13:31
S9	1	("5857158").PN. OR ("6795767").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/18 13:33
S10	9	("4117409"   "4293848"   "4318080"   "4654632"   "4686507"   "4839652"   "4965577").PN. OR ("5087915").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/18 14:54
S11	2	"20040230347"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 16:31
S12	28	("4561403"   "4730256"   "4748843"   "4750123"   "4751633"   "4884103"   "4998200"   "5161106"   "5163001"   "5170352"   "5187666"   "5189617"   "5280431"   "5311430"   "5367456"   "5367665"   "5390317"   "5418976"   "5473758"   "5490064"   "5515382"   "5579219"   "5583844"   "5602738"   "5638272"   "5794165"   "6009370"   "6591167").PN. OR ("7130723").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/18 16:52
S13	8	("20040149260"   "4819597"   "5235951"   "5492190"   "6411872"   "6718254").PN. OR ("6845315").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/18 16:59
S14	763	vehicle and control\$4 and (transistor or MOSFET or (driver adj circuit)) and ((pulse near width) or PWM) and crank	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 22:40
S15	320	S14 and (timer or (tim\$3 adj circuit))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 22:41

## EAST Search History

S16	108	S15 and serial	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2007/06/18 22:41
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